

1.1	MISCELLANEOUS	29	..Rim- and bottom-engaging
1.2	CONTACT LENS APPLICATOR	30	..Axially extending handle
1.3	SANITARY HANDLER FOR PET DROPPINGS	31.1	..Rim gripping jaws
1.4	.Pole mounted	31.2	.Band type
1.5	..Catcher	32	.Bottom-engaging
2	MISCELLANEOUS COMPOUND IMPLEMENT	33	.Resilient
3	.Plier or tong type	34	.Sliding graspers
3.5	MORTAR HAWK	49	HAND FORKS AND SHOVELS
3.6	ZIPPER PULLING TOOL	50	.Fork-tine shovel clearers
4	BARREL-ROLLER TYPE	50.5	..With grappling-type forks or shovels
5	EAR-CORN HOLDERS	50.6	.Grappling type
5.5	ROD-TYPE SUPPORTS AND HANGERS	50.7	..Annularly arranged
6	PLATE TURNERS	50.8	..With movable cooperating load- engaging member
7	PANCAKE TURNER TYPE	50.9	...Fixed and movable members
8	.Special turning element	51	.Convertible and combined
8.5	CLOTHES TONGS	52	..Fork and rake
8.6	CARPET STRETCHER	53.5	.Pivoted and adjustable head
132	WIRE ENGAGING AND CLAMPING MEANS FOR USE WITH CABLE TYPE WIRE TENSIONING APPARATUS	54.5	.Snow shovel
133	.Wire engaging portion of means includes rotatable, generally circular disk or cylinder	55	.Scoop
134	.Including threaded tightener	55.5	.Fork
135	.Including pivotally attached and hand engaged lever	56	.Edge guards
136	..Having curved, camming protrusion formed on lever	57	.Handles
9	STOVE IMPLEMENTS	58	..Auxiliary
10	.Combined	59	.Attachments
11	.Fire tong	60	..Foot pieces
12	.Lid lifter	61	SPEARS
13	..Pivoted jaw	62	BRICK CARRIERS
14	.Poker	63.1	.Hoist-line frame
15	HAND BARS AND HAND BARROWS	63.2	..Expanding grapple, fluid pressure inflatable
16	.Opposing jaws	64.1	VACUUM
17	.Cant hook type	64.2	.Venturi effect
18	.Railway coupling tools	64.3	.By positive fluid stream directed against article
19.1	POLE MOUNTED IMPLEMENT	65	.Frames
19.2	.Ball Retriever	65.5	MAGNET
19.3	.Grappling Gaff	66.1	UNDERWATER IMPLEMENT
22	.Store goods	66.2	.With locating means
23	..Compound tool	81.1	SPACING HOIST BAR OR FRAME
23.5	.Laundry sticks	81.2	.Adjustable to accommodate different size loads
24	.Compound tool	81.21	..Telescopic
25	HAND AND FINGER ATTACHMENTS	81.3	.With center of gravity adjustment
26	HAND-HOOK TYPE	81.4	.With orienting means
26.5	DISCHARGING HAND RECEPTACLES, TRAYS OR CAGES	81.41	..Load engaging guide
27.1	DETACHABLE PLATE AND RECEPTACLE LIFTER	81.5	.Load supporting units
28	.Pivoted graspers	81.51	..Pivotal about horizontal axis
		81.52	..Rotatable about vertical axis
		81.53	...Twist lock
		81.54	..Horizontally slideable

81.55	..Underlying load spanning support and sling	82.21	...With sliding latch
81.56	..Hook	82.22	..Swivel locking arm
81.6	.Load gripping units	82.23	..Slidable locking arm
81.61	..Pivoted gripping element	82.24	.Load releasing means
81.62	..Slideable gripping element	82.25	..Parachute release means
68.1	HOISTABLE RECEPTACLE	82.26	..Store ejector (e.g., aircraft carried)
68.2	..With discharge or loading means	82.27	..Boat detaching
68.21	..Bottom or side discharge or loading	82.28	..Plurality of balls
68.22	...Bucket or bailer type	82.29	..Explosive release
68.23	....Twin bucket sectors (e.g., clamshell bucket)	82.3	..Motor operated
68.24	....Twin doors	82.31	..Pivoted load support
68.25	....Vertically sliding closure	82.32	...Plurality of similar coacting supports
68.26	..Tilting discharge or loading	82.33	...With pivoted latch
68.27	..With trunnions	82.34	...With sliding latch
68.3	.Separable auxilliary hoisting means (e.g., sling, spreader frame)	82.35	..Sliding load support
67.1	HOISTLINE ATTACHED LOAD SUPPORTING FRAME	82.36	..Load ejecting
67.2	.L-frame	85	OVERHEAD BEAM HOOKS AND GRAPPLES
67.21	..With center of gravity adjustment	86.4	GRAPPLE
67.22	..With load retainer	86.41	.Load shifting
67.3	.Load capturing supports	86.42	.Interwoven contractable gripper (e.g., chinese fingers)
67.31	..Pivotable about horizontal axis	86.1	.Well type
67.32	..Rotatable about vertical axis	86.11	..Basket-forming
67.33	..Horizontally slideable	86.12	..Combined insertable and surrounding grappling means
67.4	.Underlying load spanning support and sling	86.13	..With separate lateral positioning means
67.41	..With load retainer	86.14	..With separate grapple-setting operator
67.5	.Load leveling or shifting	86.15	...Fluid pressure operator
74	HOIST-LINE SLINGS	86.16	..With laterally movable grapple support
75	.Latch release	86.17	..With releasing means
76	..Bottom	86.18	...Excessive force-responsive
77	.Net	86.19	...Spring release means
82.1	HOISTLINE OR GRAB HOOK	86.2	...Grappling means latched in release position
82.11	.Cable and hook tackle	86.21	....Lateral pocket and lug
82.12	..With center of gravity adjustment	86.22	...Screw-threaded
82.13	..Opposed load grasping hooks	86.23	..With impact means
82.14	..Choker type	86.24	..Expanding grapple means
82.15	.Driven positioning mean	86.25	...Cammed grappling means
82.16	.Resilient suspension means (e.g., spring or fluid)	86.26	..Contracting grappling means (e.g., overshot)
82.17	.Locking device (i.e., hook throat closure)	86.27	...Inwardly biased grappling means with trip
82.18	..Overlapping loop forming hooks	86.28	...Outwardly biased grappling means
82.19	..Locking arm swings in plane of hook	86.29	...Pivoted grappling means
82.2	...With pivoted latch	86.3	...Cammed grappling means

86.31	....Inwardly biased grappling means	119	...Tandem tongs
86.32	...Resilient grappling means	119.1	.Slideable jaws
86.33	...Shoulder-engaging	119.2	.Band type
86.34	..Including washover or cutover means	119.3	.Inflatable
		119.4	.Swing dampener
87.1	.Multiple grapples for multiple objects	120	HAYFORK TYPE
87.11	..Confection stick handling (e.g., popsicle stick)	121	.Corkscrew
87.12	..Egg handler	122	.Single tilting fork
87.2	..Groove- or shoulder-engaging type	123	..With auxiliary retainer
87.22	...Pivoted jaws	124	..Latch release
87.24	....Link- or lever-operated	125	.Combined harpoon and fork
87.26	...Slidable jaws	126	.Harpoon
87.28	...Rigid type	127	..Mechanically spread barbs
88	.Magnet- or piston-controlled	128	...Multiple
89	.Lewises	129	....Latch release
90	.Collar-engaging	130	...Latch release
91	..Rigid yoke	131	SHIELD DEVICES
92	.Rigid gripper	137	ARTICLE CARRIER GRIPPED AND CARRIED BY HAND
93	.Expanding		
94	..Cam-spread jaws	138	.Including means to cover book or sheet
95	...Pivoted	139	.Including support for optical instrument (e.g., camera holder)
96	...Slip wedge	140	.Carrier for person
97	..Pivoted	141	.Convertible to, or useable as, different device or different type carrier
98	...Hayfork type	142	..Having means for supporting or mounting carrier
98.1	..Inflatable	143	...Having plural receivers or supports for plural articles (e.g., rack)
99.1	.Resilient jaws	144	...Tray
99.2	..Hand-held (e.g., tweezer, tongs)	145	.Configured for complimentary projections on package or article
100	..Separate sliding operator	146	.Having plural diverse receivers or supports for diverse articles
101	.Pivoted cam and hook	147	..Including receiver or support for ski
102.1	.Socket and slip wedge	148	.Including helical spring or elastic material for engaging or supporting article
102.2	..Well pipe elevator	149	.Having flaccid receiver, support or fastener for article
103.1	.Fixed and moveable jaw	150	..Including means to tighten flaccid member about article
103.2	..Coil gripper	151	..Including rigid, semirigid or reinforced panel
104	..Pivoted jaw	152	..Having plural handles connected by flaccid receiver or support (e.g., sling)
105	...Hayfork type	153	..And rigid handle or bar
106	.Pivoted jaws		
107	..Hayfork type		
108	...With auxiliary retainer		
109	...Latched		
110.1	..Automatic		
110.2	...Cam and follower		
111	..Separate cable operator		
112	...Suspension		
113	..Surrounding frame		
114	...Opposing load-engaging cams		
115	..Separate sliding operator		
116	..Cam-operated		
117	..Auxiliary operating handle		
118	..Crossed levers		

- 154 ...Plural discrete flaccid
supporting members suspended
from handle or bar at spaced
points
- 155And connected by cross-strap
or brace (e.g., harness)
- 156 ...Single web or strap (e.g.,
sling)
- 157 ..Having parallel flaccid members
forming article support
- 158 .Carrier component positioned in
aperture in article
- 159 .Having plural discrete receivers
or supports for spaced
articles
- 160 ..Separable supports
- 161 ..Vertical array
- 162 ..Having movably mounted or
separable means to retain
articles
- 163 ...Common to plural receivers or
supports
- 164 .Article gripping or retaining
means actuated by lifting
carrier
- 165 .Including means to release
article or to fasten carrier
to or around article
- 166 ..Resiliently biased
- 167 .Support or receiver movably,
removably, or adjustably
mounted to handle or handle
portion (e.g., collapsible)
- 168 ..Having slidable sections
- 169 ..Having pivoted sections
- 170 .Including handle having article
or cord engaging means
depending at each end
- 171 .Having cord or bail
accommodating groove or
passage along length of handle
- 172 .Tray

FOREIGN ART COLLECTIONSFOR **CLASS-RELATED FOREIGN DOCUMENTS****CROSS-REFERENCE ART COLLECTIONS**

- 901 **PLATE LIFTING CLAMP**
- 902 **GRIPPING ELEMENT**
- 903 **BATTERY CARRIER**
- 904 **VEHICLE CARRIER**
- 905 **WIRELESS REMOTE CONTROL DEVICE**
- 906 **ATOMIC FUEL HANDLER**
- 907 **SENSOR CONTROLLED DEVICE**